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Job No.: CTCE/BBMP/CC/W.No.09/CSR-1085a/CEMENT/2019-20 Date: 21.10.2019

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. Chethan.C** #28, Anjaneyaswamy Layout, 1st Main, Thindlu, Vidyaranyapura (P), Bangalore - 560097.
*** Name of Work**	:	Maintenance of BBMP buildings in Ward No.09 (Vidyaranyapura), Vidyaranyapura Sub Division , BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Cement
Sample Received on	:	19.10.2019
Period of Testing	:	19.10.2019 to 21.10.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	28.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	365 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/CC/W.No.09/CSR-1085a/SAND-Gradation/2019-20 21.10.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. Chethan.C** #28, Anjaneyaswamy Layout, 1st Main, Thindlu, Vidyaranyapura (P), Bangalore - 560097.
*** Name of Work**	:	Maintenance of BBMP buildings in Ward No.09 (Vidyaranyapura), Vidyaranyapura Sub Division , BBMP, Bangalore.
***Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
***Sample ID**	:	Fine Aggregates (Sand Mortar)
Technical Reference	:	IS : 2116 - 1980
Sample Received on	:	19.10.2019
Date of Testing	:	21.10.2019

Total Wt. of Aggregates in gms **1000**

Is Sieved Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS : 2116 - 1980 (Table - 1)
4.75	100.00	100
2.36	98.70	90-100
1.18	94.10	70-100
600 Micron	76.10	40-100
300 Micron	33.60	5-70
150 Micron	10.70	0-15

* Information is furnished by the Customer/Representative

Remarks : This tested sample satisfies requirement.

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Job No.: CTCE/BBMP/CC/W.No.09/CSR-1085a/AGG/GR/2019-20 21.10.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. Chethan.C** #28, Anjaneyaswamy Layout, 1st Main, Thindlu, Vidyaranyapura (P), Bangalore - 560097.
*** Name of Work**	:	Maintenance of BBMP buildings in Ward No.09 (Vidyaranyapura), Vidyaranyapura Sub Division , BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	19.10.2019
Date of Testing	:	21.10.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.44	95-100	85-100
20	41.14	30-70	0-20
10	15.90	10-35	0-5
4.75	3.74	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. Chethan.C** #28, Anjaneyaswamy Layout, 1st Main, Thindlu, Vidyaranyapura (P), Bangalore - 560097.
*** Name of Work**	:	Maintenance of BBMP buildings in Ward No.09 (Vidyaranyapura), Vidyaranyapura Sub Division , BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	19.10.2019
Date of Testing	:	21.10.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	97.48	95-100	85-100
10	39.38	25-55	0-20
4.75	6.82	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/CC/W.No.09/Steel/2019-20 23.10.2019

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. Chethan.C** #28, Anjaneyaswamy Layout, 1st Main, Thindlu, Vidyaranyapura (P), Bangalore - 560097.
*** Name of work**	:	Maintenance of BBMP buildings in Ward No.09 (Vidyaranyapura), Vidyaranyapura Sub Division , BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Samples ID**	:	8mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	23.10.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	510	551	13.1	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/CC/W.No.09/Steel/2019-20 23.10.2019

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. Chethan.C** #28, Anjaneyaswamy Layout, 1st Main, Thindlu, Vidyaranyapura (P), Bangalore - 560097.
*** Name of work**	:	Maintenance of BBMP buildings in Ward No.09 (Vidyaranyapura), Vidyaranyapura Sub Division , BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Samples ID**	:	10mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	23.10.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	515	556	13.25	O.K	O.K

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Job No.: CTCE/BBMP/CC/W.No.09/Steel/2019-20 23.10.2019

TEST REPORT ON REINFORCEMENT STEEL

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. Chethan.C** #28, Anjaneyaswamy Layout, 1st Main, Thindlu, Vidyaranyapura (P), Bangalore - 560097.
*** Name of work**	:	Maintenance of BBMP buildings in Ward No.09 (Vidyaranyapura), Vidyaranyapura Sub Division , BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Samples ID**	:	12 mm Bar
Technical Reference	:	IS: 1786-2008 (RA-2013)
Date of Testing	:	23.10.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	520	562	13.45	O.K	O.K

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Job No.: CTCE/BBMP/CC/W.No.09/CSR-1085a/CC Solid Block/2019-20 26.10.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF SOLID CONCRETE BLOCKS

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. Chethan.C** #28, Anjaneyaswamy Layout, 1st Main, Thindlu, Vidyaranyapura (P), Bangalore - 560097.
*** Name of Work**	:	Maintenance of BBMP buildings in Ward No.09 (Vidyaranyapura), Vidyaranyapura Sub Division , BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
Technical Reference	:	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	08
Sample Received on	:	24.10.2019
Date of Testing	:	26.10.2019

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Requirement as per IS: 2185 (Part-1) - 2005 (RA-2010)
1	Block 1	35.42	415.9	5.20	Minimum required Compressive Strength of Individual Units 5.00 N/mm^2
2	Block 2	36.90	428.6	5.36	
3	Block 3	34.28	419.3	5.24	
4	Block 4	35.99	428.4	5.36	
5	Block 5	36.58	432.8	5.41	
6	Block 6	34.18	445.9	5.57	
7	Block 7	34.99	451.6	5.65	
8	Block 8	35.99	460.2	5.75	

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Job No.: CTCE/BBMP/CC/W.No.09/CSR-1085a/CC Solid Block/2019-20 26.10.2019

TEST REPORT ON BLOCK DENSITY OF SOLID CONCRETE BLOCKS

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. Chethan.C** #28, Anjaneyaswamy Layout, 1st Main, Thindlu, Vidyaranyapura (P), Bangalore - 560097.
*** Name of Work**	:	Maintenance of BBMP buildings in Ward No.09 (Vidyaranyapura), Vidyaranyapura Sub Division , BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
Technical Reference	:	IS: 2185 (Part-1) - 2005 (RA-2010)
Size of Blocks	:	400mm x 200mm x 200mm
Cross Sectional Area	:	80000 mm^2
No. of Blocks Tested	:	03
Sample Received on	:	24.10.2019
Date of Testing	:	26.10.2019

Sl.No.	Size of Block in mm	Mass of Block in Kg	Volume of Specimen in cm^3	Density in Kg/m^3	Average Density Kg/m^3
1	400x200X200	36.128	16000.00	2258.00	2209.19
2	400x200X200	35.624	16000.00	2226.50	
3	400x200X200	34.289	16000.00	2143.06	

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Job No.: CTCE/BBMP/CC/W.No.09/CSR-1085a/Cube/2019-20 04.12.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. Chethan.C** #28, Anjaneyaswamy Layout, 1st Main, Thindlu, Vidyaranyapura (P), Bangalore - 560097.
*** Name of the work**	:	Maintenance of BBMP buildings in Ward No.09 (Vidyaranyapura), Vidyaranyapura Sub Division , BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	RCC Roof Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	04.12.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.11.2019	04.12.2019	8.130	495.6	22.03
2	06.11.2019	04.12.2019	8.210	504.8	22.44
3	06.11.2019	04.12.2019	8.289	524.6	23.32

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/CC/W.No.09/Tiles/2019-20 18.11.2019

TEST REPORT ON CERAMIC TILES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. Chethan.C** #28, Anjaneyaswamy Layout, 1st Main, Thindlu, Vidyaranyapura (P), Bangalore - 560097.
*** Name of the Work**	:	Maintenance of BBMP buildings in Ward No.09 (Vidyaranyapura), Vidyaranyapura Sub Division , BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Ceramic tiles
Date of Testing	:	18.11.2019

Sl. No.	Type of test	Result as per Test
1	Shape of Tiles	Square
2	Dimensions Of Tiles	300mmx300mm
3	Thickness	12mm

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Job No.: CTCE/BBMP/CC/W.No.09/GSWPipe/2019-20 18.11.2019

TEST REPORT ON GLAZED STONEWARE PIPE

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. Chethan.C** #28, Anjaneyaswamy Layout, 1st Main, Thindlu, Vidyaranyapura (P), Bangalore - 560097.
*** Name of work**	:	Maintenance of BBMP buildings in Ward No.09 (Vidyaranyapura), Vidyaranyapura Sub Division , BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Glazed Stoneware Pipe(150mm dia)SP-1 Class
Techinical Reference	:	IS-651:2007 (VI revision)
Date of Testing	:	18.11.2019

Sl no	Internal Diameter	Thickness of Pipe	% absorption	% of Acid Resistance	Crushing Strength kN/m
1	150mm	15mm	4.7	1.68	17.80
2	150mm	15mm	4.5	1.73	18.20
3	150mm	15mm	4.4	1.74	17.65
Requirements as per IS-651:2007(VI Revision)	-----	----	**Maximum 6%**	**Not Exceed 2.5%**	**Minimum 16kN/m**

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Job No.: CTCE/BBMP/CC/W.No.09/CSR-1085a/Cube/2019-20 18.12.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. Chethan.C** #28, Anjaneyaswamy Layout, 1st Main, Thindlu, Vidyaranyapura (P), Bangalore - 560097.
*** Name of the work**	:	Maintenance of BBMP buildings in Ward No.09 (Vidyaranyapura), Vidyaranyapura Sub Division , BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Passage Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.12.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2019	18.12.2019	8.105	475.5	21.13
2	20.11.2019	18.12.2019	8.229	488.6	21.72
3	20.11.2019	18.12.2019	8.305	504.3	22.41

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples collected from the site.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.12.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2019	18.12.2019	8.372	498.6	22.16
2	20.11.2019	18.12.2019	8.339	517.5	23.00
3	20.11.2019	18.12.2019	8.406	532.4	23.66

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*** Grade of Concrete**	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.12.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	20.11.2019	18.12.2019	8.110	504.6	22.43
2	20.11.2019	18.12.2019	8.226	514.9	22.88
3	20.11.2019	18.12.2019	8.333	529.7	23.54

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